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Electro-Voice RE20

Electro-Voice RE20 Broadcast Announcer Microphone

Model: RE20

1. INTRODUCTION

The Electro-Voice RE20 is a dynamic cardioid microphone recognized as an industry standard. It is widely favored by broadcasters, podcasters, and sound engineers globally. Its design also makes it a premium-grade instrument microphone for music production. The Variable-D design and heavy-duty internal pop filter are optimized for close-in voice work, while an internal element shock-mount minimizes vibration-induced noise.

2. KEY FEATURES

- **Dynamic Cardioid Design:** An industry standard for broadcasting, podcasting, and sound engineering.
- **Variable-D Technology:** Minimizes proximity effect, ensuring consistent sound quality during close-up vocal use.
- **Heavy-Duty Internal Pop Filter:** Effectively reduces plosive sounds for clear voice capture.
- **Internal Element Shock-Mount:** Reduces unwanted vibration-induced noise.
- **Large Diaphragm Dynamic Element:** Contributes to high-quality audio reproduction.
- **Humbucking Coil:** Guards against line hum interference.
- **Mid-Bass Tone-Shaping Switch:** Allows for adjustment of the microphone's tonal characteristics.

3. SETUP

3.1 Unboxing and Initial Inspection

Carefully remove the microphone and its accessories from the packaging. Inspect all components for any signs of damage. The package includes the RE20 microphone and an 81715 stand clamp.

3.2 Mounting the Microphone

Attach the provided 81715 stand clamp to a standard microphone stand or boom arm. Securely fasten the RE20 microphone into the stand clamp. Ensure the microphone is stable and positioned to minimize accidental bumps or falls.



Figure 1: Electro-Voice RE20 microphone mounted on a stand, illustrating typical studio setup.

3.3 Connecting to Audio Equipment

The RE20 features an XLR connector. Connect a high-quality XLR cable from the microphone to your audio interface, mixer, or preamplifier. As a dynamic microphone, the RE20 does not require phantom power, but it is compatible with equipment that provides it.

4. OPERATING INSTRUCTIONS

4.1 Microphone Placement and Technique

The RE20's Variable-D design effectively controls the proximity effect, allowing for close microphone placement without excessive bass boost. For vocal applications, position the microphone 1 to 6 inches from the sound source. Experiment with distance to achieve the desired tonal balance.



Figure 2: Front view of the Electro-Voice RE20 microphone, highlighting its robust construction.

4.2 Using the Mid-Bass Tone-Shaping Switch

The RE20 includes a mid-bass tone-shaping switch located on the microphone body. This switch allows you to tailor the low-frequency response to suit different voices or instruments, or to compensate for room acoustics. Adjust the switch as needed to achieve optimal sound clarity and presence.



Figure 3: Angled view of the Electro-Voice RE20, showing the mid-bass tone-shaping switch.

5. MAINTENANCE

5.1 Cleaning

To clean the microphone's exterior, use a soft, dry cloth. For the grille, a soft brush can be used to gently remove dust or debris. Avoid using liquid cleaners or solvents, as these can damage the microphone's components.

5.2 Storage

When not in use, store the RE20 in a protective case to prevent dust and moisture accumulation. Store in a cool, dry place away from direct sunlight or extreme temperatures.

5.3 Handling

Handle the microphone with care. Avoid dropping it or subjecting it to harsh impacts, as this can damage the internal components, including the shock-mount and dynamic element.

6. TROUBLESHOOTING

6.1 No Sound Output

- Check all XLR cable connections to ensure they are secure.
- Verify that the input gain on your audio interface or mixer is set appropriately.
- Ensure the correct input channel is selected on your audio equipment.

6.2 Unwanted Hum or Noise

- Ensure all audio cables are properly shielded and in good condition.
- Check for proper grounding of your audio equipment.
- The RE20 features a humbucking coil to reduce line hum; ensure it is functioning correctly.
- Move the microphone away from potential sources of electromagnetic interference (e.g., power supplies, monitors).

6.3 Distorted Audio

- Reduce the input gain on your audio interface or mixer.
- Ensure the microphone is not positioned too close to a very loud sound source.
- Check the input levels on your recording software to prevent clipping.

7. SPECIFICATIONS

Feature	Detail
Brand	Electro-Voice
Model Name	RE20
Item Model Number	RE20
Color	Gray
Microphone Form Factor	Microphone only
Connectivity Technology	Wired
Connector Type	XLR
Polar Pattern	Unidirectional (Cardioid)
Frequency Response	45 Hz - 18,000 Hz

Impedance	150 Ohms
Signal-to-Noise Ratio	78 dB
Item Weight	16 ounces (1 pound)
Product Dimensions (L x W x H)	12.3 x 5 x 3.6 inches
Material	Aluminum
Recommended Uses For Product	Singing, Broadcasting, Podcasting
Date First Available	July 19, 2004

8. WHAT'S IN THE BOX

- Electro-Voice RE20 Broadcast Announcer Microphone
- 81715 Stand Clamp

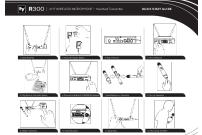
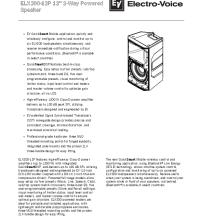
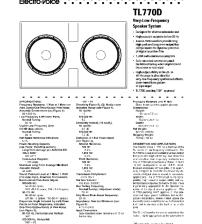
9. WARRANTY AND SUPPORT

For warranty information and technical support, please refer to the official Electro-Voice website or contact their customer service directly. Keep your proof of purchase for any warranty claims.

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Related Documents - RE20

	<p>Electro-Voice Model D054 Omnidirectional Dynamic Microphone Specifications and Applications</p> <p>Comprehensive technical specifications, features, description, and applications for the Electro-Voice Model D054 omnidirectional dynamic microphone, a professional audio tool.</p>
	<p>Electro-Voice N/D267a & N/D267as Wired Microphone User Manual</p> <p>Comprehensive user manual for the Electro-Voice N/D267a and N/D267as wired microphones, detailing features, operation, placement, specifications, and warranty information.</p>

	<p>Electro-Voice R300 UHF Wireless Microphone System User Guide</p> <p>Comprehensive user guide for the Electro-Voice R300 UHF Wireless Microphone System, covering quick setup, detailed component descriptions, operational guidelines, troubleshooting, FAQs, specifications, and service information for optimal performance.</p>
	<p>Electro-Voice R300 UHF Wireless Microphone System Quick Start Guide</p> <p>A concise guide to setting up and using the Electro-Voice R300 UHF Wireless Microphone system, covering both handheld and bodypack transmitter configurations with step-by-step instructions.</p>
	<p>Electro-Voice ELX200-12P 12-Inch 2-Way Powered Speaker Datasheet</p> <p>Detailed datasheet for the Electro-Voice ELX200-12P, a 12-inch 2-way powered loudspeaker featuring QuickSmartDSP, 1200W Class-D amplification, 130 dB peak SPL, and versatile connectivity. Includes technical specifications, system overview, and ordering information.</p>
	<p>Electro-Voice TL770D: Very-Low-Frequency Cinema Subwoofer System Specifications</p> <p>Detailed technical specifications and overview of the Electro-Voice TL770D, a very-low-frequency speaker system designed for high-output cinema subwoofer applications with dual DL18MT woofers.</p>